

# UNDERSTANDING CONSTRUCTION DRAWINGS

FIFTH EDITION

For Housing and Small Buildings

  
Based on the  
National Building  
Code of Canada  
2020



Tom Stephenson

# Understanding Buildings

**Jennifer Masengarb, Kirsten Rehbein**



## **Understanding Buildings:**

**Understanding Buildings a Multidisciplinary Approach** E. Reid, 2013-11-04 This book meets the needs for a basic yet comprehensive and up to date introductory text to building technology for students in architecture and the other disciplines in building design The wide coverage is organised under the chapter headings structure enclosure climate services utility services lighting acoustics fire safety the future The treatment in each case is concentrated on the close relationship between good design practice and the basic underlying scientific and practical principles but stopping short of the high level theory which is to be found in other more closely specialised texts This well illustrated and highly readable book will be invaluable to the student and of interest to the practitioner too both in architecture and in its related technical fields

Understanding Buildings E. Reid, 2015-05-01 Understanding Buildings provides students in architecture and other allied disciplines with a basic introduction to building technology in all its aspects This general multidisciplinary text provides an overall explanation of the building process through an examination of underlying principles as well as design examples In seven chapters the book discusses structure enclosure climate services utility services lighting acoustics fire safety and future needs It is generously illustrated with 400 diagrams tables charts and construction details

**Understanding Buildings** Esmond Reid, 1984 This general multidisciplinary text provides an overall explanation of the building process through an examination of underlying principles as well as design examples

The Architecture Handbook Jennifer Masengarb, 2007

*The Architecture Handbook* Jennifer Masengarb, Kirsten Rehbein, 2007

**Building Structures** Malcolm Millais, 2017-07-14 This is a one stop book for knowing everything important about building structures Self contained and with no prerequisites needed it is suitable for both general readers and building professionals follow the history of structural understanding grasp the concepts of structural behaviour via step by step explanations apply these concepts to a simple building see how these concepts apply to real buildings from Durham Cathedral to the Bank of China use these concepts to define the design process see how these concepts inform design choices understand how engineering and architecture have diverged and what effect this had learn to do simple but relevant numerical calculations for actual structures understand when dynamics are important follow the development of progressive collapse prevention enter the world of modern structural theory see how computers can be used for structural analysis learn how to organise and design a successful project With more than 500 pages and over 1100 user friendly diagrams this book is a must for anyone who would like to understand the fascinating world of structures

The Art of Understanding Your Building's Personality Wayne P. Sayer, 2020-05-14 Wayne reveals how the human body was used as the model for creating the buildings and high rise structures we live and work in today Yet more telling he walks us through scientific evidence that shows how our buildings and structures can communicate with people He uses a number of analogies and real life experiences to reveal how buildings and facilities operate and communicate He systematically interconnects your cognitive functions with facilities related

processes These interrelated functions encompass reasoning memory attention and related facility engineering terms which lead directly to the attainment of information and in turn enhance your understanding as a current and future facilities professional as well as that of a novice that would just simply like to know of Wayne's exploits or a basic curiosity of just how buildings work Daisy Gallagher a global Who's Who within the built environment and Washington DC insider advances the Foreword of this book to introduce a number of Wayne's achievements and teachings that includes Wayne being recognized by the 114th Congress of the United States She shares how Wayne takes the wrapper off some of America's most prestigious companies and organizations to share a few of his insights and dealings with some of these recognizable structures while ultimately convincing you that buildings are people too

### **Architectural Form Part 1 an Introduction Into**

**Understanding Buildings** Huub Maas,2007-03-05 Explores buildings and the various aspects that define them such as the floors the walls the roofs and ceilings the inside and the outside and decoration *Understanding Architecture* Hazel Conway,Rowan Roenisch,1994 This remarkable book is the first comprehensive introduction to architecture and architectural history Introducing issues of urbanism feminism and ethnicity it covers concerns which are at the forefront of current architectural debate

### **Understanding Buildings** Esmond Reid,1984

*Understanding Buildings*,1984 This book was

written mainly for aspiring architects and civil engineers and covers almost all types of building systems thoroughly It is very detailed and has separate chapters for important topics such as structure climate services lighting acoustics fire safety etc Although the author largely stays away from mathematics he is always clear and concise in dealing even with complex analytical problems As an example I would give his excellent treatment of two and three hinged portals and the fascinating parallels he draws between the engineering ideal of arches and the different types of portals He covers all major construction techniques from timber platform frame construction generally of houses to more complex forms such as the hyperbolic paraboloid opposed double curvature and the esoteric hyperboloid of revolution the opposed double curvature architecture almost always in concrete common in power station cooling towers His writing on accessory systems such as heating air conditioning ventilation and fire detection and prevention are both introductory and comprehensive In all areas from structure to systems he is careful to explain real world rationale in an approachable format that is both thorough and easy to understand

### **The Art of Understanding Your Building's Personality** Wayne P. Saya,2020-05-14

Wayne reveals how the human body was used as the model for creating the buildings and high rise structures we live and work in today Yet more telling he walks us through scientific evidence that shows how our buildings and structures can communicate with people He uses a number of analogies and real life experiences to reveal how buildings and facilities operate and communicate He systematically interconnects your cognitive functions with facilities related processes These interrelated functions encompass reasoning memory attention and related facility engineering terms which lead directly to the attainment of information and in turn enhance your understanding as a current and future facilities professional as well as that of a novice that would just

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**Essential Building Science** Jacob Deva Racusin,2016-11-28 Down and dirty a complete step by step guide to making installing and living with beautiful all natural earthen floors Poor heat and moisture management are the enemies of durable comfortable and efficient housing and good building design and construction starts with a solid understanding of good building science Essential Building Science provides a highly visual and accessible introduction to the fundamentals of building science for residential construction Part one covers the rationale behind high performance design and the fundamentals of building physics including thermal dynamics moisture transfer and hygro thermal dynamics such as vapor drive and condensation Part two teaches the vital critical thinking skills needed to consider buildings as whole systems and to develop thermal and moisture control strategies regardless of the specifics of the design Case studies and examples from across North American climatic zones illuminate real life problems and offer builders designers and DIYers the insights and tools required for creating better new buildings and dramatically improving old ones Good science plus critical thinking equals high performance buildings

**Twenty Buildings Every Architect Should Understand** Simon Unwin,2010-02-25 Have you ever wondered how the ideas behind the world's greatest architectural designs came about What process does an architect go through to design buildings which become world renowned for their excellence This book reveals the secrets behind these buildings He asks you to read the building and understand its starting point by analyzing its final form Through the gradual revelations made by an understanding of the thinking behind the form you learn a unique methodology which can be used every time you look at any building

**Practical Building Conservation** David Odgers,Alison Henry,2012 Stone considers the wide variety of historical uses from simple masonry walling through to elaborate carving and decoration The book considers why stone decays or fails and how to assess and understand the causes before concentrating on the practical methods of treatment repair and maintenance

**Building Pathology** David S. Watt,2025-04-21 Well illustrated introduction to building pathology bridging the gap between building surveying and the detailed understanding of building defects their prognosis and remediation Building Pathology introduces the concept of building pathology and aims to give the reader a greater awareness and understanding of buildings and their users to assist in defect diagnosis and the design and implementation of specific and appropriate remedial measures By focusing on the process rather than specific solutions the book helps the reader to use the information in their practice in a wide variety of situations The new third edition features new case studies which have been integrated into the text Written by a highly qualified author with significant experience in

the field the third edition of Building Pathology contains information on Building performance covering environmental factors user requirements building structures and materials Defects damage and decay covering atmospheric and climatic action excess moisture chemical physical and biological action movement fire and human factors Survey and assessment covering building inspections and surveys how to prioritize defects unoccupied buildings and sites and redundant and ruined buildings Remediation in practice covering real world examples With comprehensive coverage of the subject Building Pathology is an essential learning resource for students of building surveying as well as professional architects building surveyors property managers and those working in heritage disciplines

*Understanding Offices* Joanna Eley,Alexi Marmot,1995 For managers who want to plan for the best use of space amenities for their workers add proper furniture and lighting and turn their office building into an intelligent energy efficient healthy and technologically sound edifice

**Twenty-Five+ Buildings Every Architect Should Understand** Simon Unwin,2023-11-03 The underlying theme of Twenty Five Buildings Every Architect Should Understand is the relationship of architecture to the human being how it frames our lives and orchestrates our experience how it can help us make sense of the world and contribute to our sense of identity and place Exploring these dimensions through a wide range of case studies that illustrate the rich diversity of twentieth and twenty first century architecture this book is essential reading for every architect With the addition of numerous shorter analyses this new edition covers an even greater range of architectural ideas providing students and architects with further inspiration for exploration in their own design work Architects live by ideas But where do they come from And how do they shape buildings There is no one right way to do architecture This book illustrates many Its aim is to explore the rich diversity of architectural creativity by analysing a wide range of examples to extract the ideas behind them Twenty Five Buildings Every Architect Should Understand is a companion to Simon Unwin s *Analysing Architecture the Universal Language of Place Making* most recent edition 2021 and part of the trilogy which also includes his *Exercises in Architecture Learning to Think as an Architect* second edition 2022 Together the three books offer an introduction to the workings of architecture providing for the three aspects of learning theory examples and practice Twenty Five Buildings focusses on analysing examples using the methodology offered by *Analysing Architecture* which operates primarily through the medium of drawing An underlying theme of *Twenty Five Buildings Every Architect Should Understand* is the relationship of architecture to the human being how it frames our lives and orchestrates our experiences how it can help us give form to the world and contributes to our senses of identity and place Exploring these dimensions through case studies that illustrate the rich diversity of twentieth and twenty first century architecture this book is essential reading and hopefully an inspiration for every architect In this new edition supplementary analysis and discussion has been added to each of the twenty five case studies drawing attention to their influences from and on other architects A number of extra shorter analyses have been included too following the practice of presenting extra small dishes interspersed among main courses in high end restaurants These additional short

analyses account for the sign after Twenty Five in the title of this edition and double the number of buildings analysed to around fifty

**Building Codes Illustrated** Francis D. K. Ching, Steven R. Winkel, 2016-03-28 Portion of edition taken from page 4 of cover

**Understanding Tall Buildings** Kheir Al-Kodmany, 2017-02-17 In recent years the rapid pace of tall building construction has fostered a certain kind of placelessness with many new tall buildings being built out of scale context and place By analyzing hundreds of tall buildings and by providing hundreds of visuals that inspire stimulate and engage Understanding Tall Buildings contends that well designed tall buildings can rejuvenate cities ignite economic activity support social life and boost city pride Although this book does not claim to possess all the solutions it does propose specific tall building design guidelines that may help to promote placemaking Through this work it is the author's hope that ill conceived developments will become less common in the future and that good placemaking will become the norm not the exception This book is a must read for students and practitioners working to create better tall buildings and better urban environments

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